

AB-116U

10/081,820

IN THE CLAIMS:

Please amend the claims as indicated below.

Claim 1 (original): A method for treating a patient with at least one of epilepsy, a metabolic disorder, a mood disorder, an anxiety disorder, chronic pain, a gastrointestinal disorder, hypertension, a cardiac disorder, a psychotic disorder, a cognitive disorder, dementia, an eating disorder, a sleep disorder, an endocrine disorder, a movement disorder, and headache, comprising:

providing at least one leadless stimulator having at least two electrodes;

implanting the at least one stimulator adjacent to at least one portion of the vagus nerve;

providing operating power to the at least one stimulator;

using at least one external appliance to transmit stimulation parameters to the at least one stimulator;

receiving and storing the stimulation parameters;

generating stimulation pulses in accordance with the stimulation parameters;

and

delivering the stimulation pulses to nerve fibers adjacent to the at least one stimulator;

wherein the stimulator has a size and shape suitable for placement of the electrodes adjacent to the at least one portion of the vagus nerve.

Claim 2 (original): The method of Claim 1 wherein the at least one portion of the vagus nerve comprises a portion distal to at least a superior cervical cardiac branch of the vagus nerve.

AB-116U

10/081,820

Claim 3 (original): The method of Claim 2 wherein the at least one portion of the vagus nerve comprises a portion distal to at least an inferior cervical cardiac branch of the left vagus nerve.

Claim 4 (original): The method of Claim 3 wherein the at least one portion of the vagus nerve comprises a portion distal to at least a thoracic cardiac branch of the vagus nerve.

Claim 5 (original): The method of Claim 1 wherein the stimulation pulses are delivered at less than about 50 to 100 Hz.

Claim 6 (withdrawn): The method of Claim 5 wherein the stimulation is provided to relieve symptoms of at least one of epilepsy, a mood disorder, a metabolic disorder, a cardiac disorder, and a gastrointestinal disorder.

Claim 7 (withdrawn): The method of Claim 6 wherein the cardiac disorder comprises at least tachycardia.

Claim 8 (original): The method of Claim 1 wherein the stimulation pulses are delivered at greater than about 50 to 100 Hz.

Claim 9 (withdrawn/currently amended): The method of Claim 8 wherein the stimulation is provided to relieve symptoms of at least one of a cardiac disorder[[s]] and a metabolic disorder[[s]].

AB-116U

10/081,820

Claim 10 (withdrawn): The method of Claim 9 wherein the cardiac disorder comprises at least bradycardia.

Claim 11 (withdrawn): The method of Claim 1 wherein the at least one portion of the vagus nerve comprises at least one of the pharyngeal branches and laryngeal branches of the vagus nerve, wherein the stimulation is provided to relieve a sleep disorder.

Claim 12 (withdrawn): The method of Claim 1 wherein the at least one portion of the vagus nerve comprises at least one of the gastrointestinal branches of the vagus nerve, wherein the stimulation is provided to relieve a gastrointestinal disorder.

Claim 13 (withdrawn): The method of Claim 1 wherein the at least one portion of the vagus nerve comprises at least one vagus nerve branch innervating the pancreas, wherein the stimulation is provided to relieve an endocrine disorder.

Claim 14 (original): The method of Claim 1 further comprising

providing at least one sensor;

using the at least one sensor to sense a physical condition; and

determining the stimulation parameters based upon the sensed condition.

Claim 15 (original): The method of Claim 14 wherein the at least one sensor is a part of the stimulator.

AB-116U

10/081,820

Claim 16 (original): The method of Claim 1 further comprising providing and implanting more than one stimulator.

Claims 17-35 (cancelled)